## STIC Biotechnology Systems Branch

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

12/04/000

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.4.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

ERROR DE	<u>TECTED</u>	SUGGESTED CORRECTION SERIAL NUMBER: 10/555, 735
ATTN: NEW	RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
	rapped Nucleics rapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Inv	alid.Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
	saligned Amino umbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do <b>not</b> use tab codes between numbers; use <b>space characters</b> , instead.
4No	n-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Va	riable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
	entIn 2.0 oug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
	pped Sequences LD RULES)	Sequence(s)missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
	pped Sequences EW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
	of n's or Xaa's W RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
	alid <213> sponse	Per 1.823 of Sequence Rules, the only <b>valid</b> <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is <b>required</b> when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
Use	e of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown. Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
	ntentIn 2.0 bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Mi	suse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

AMC - STIC Systems Branch - 03/02/06



**IFWO** 

RAW SEQUENCE LISTING DATE: 12/04/2006
PATENT APPLICATION: US/10/555,735 TIME: 12:59:05

Input Set : N:\efs\12\_04\_06\10555735\_efs\INTM01901USseqlist.txt

Output Set: N:\CRF4\12042006\J555735.raw

```
4 <110> APPLICANT: Blatt, Lawrence M.
     6 <120> TITLE OF INVENTION: SYNTHETIC CHEMOKINE RECEPTOR LIGANDS AND
        METHODS OF USE THEREOF
     9 <130> FILE REFERENCE: INTM-033WO
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/555,735
                                                              Does Not Comply
Corrected Diskette Needed
C--> 12 <141> CURRENT FILING DATE: 2005-11-07
                                                              Does Not Comply
    14 <150> PRIOR APPLICATION NUMBER: 60/471,404
     15 <151> PRIOR FILING DATE: 2003-05-16
     17 <160> NUMBER OF SEQ ID NOS: 20
     19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     21 <210> SEQ ID NO: 1
     22 <211> LENGTH: 77
     23 <212> TYPE: PRT
     24 <213> ORGANISM: Artificial Sequence
     26 <220> FEATURE:
     27 <223 > OTHER INFORMATION: consensus IP-10 sequence
     29 <400> SEQUENCE: 1
     30 Val Pro Leu Ser Arg Thr Gly Arg Cys Thr Cys Ile Ser Ile Ser Asn
                                             10
     32 Gln Pro Val Asn Pro Arg Ser Leu Glu Lys Leu Glu Ile Ile Pro Pro
                                         25
     34 Ser Gln Phe Cys Pro Lys Ile Glu Ile Ile Ala Thr Leu Lys Lys Asn
                                    40
     36 Gly Glu Gln Arg Cys Leu Asn Pro Glu Ser Lys Ala Ile Lys Asn Leu
                                55
     38 Ile Lys Lys Val Ser Arg Glu Met Ser Lys Lys Ser Pro
     39 65
                            70
     42 <210> SEO ID NO: 2
     43 <211> LENGTH: 74
     44 <212> TYPE: PRT
     45 <213> ORGANISM: Artificial Sequence
     47 <220> FEATURE:
     48 <223> OTHER INFORMATION: consensus I-TAC sequence
     50 <400> SEQUENCE: 2
     51 Phe Pro Met Phe Arg Arg Gly Arg Cys Leu Cys Ile Ser Pro Gly Val
                                             10
     53 Lys Ala Val Lys Val Ala Ser Leu Glu Lys Leu Ser Ile Met Tyr Pro
                                         25
     55 Ser Asn Asn Cys Asp Lys Ile Glu Ile Ile Ala Thr Leu Lys Lys Asn
                                     40
               35
     57 Gly Gly Gln Arg Cys Leu Asn Pro Lys Ser Lys Gln Ala Lys Leu Leu
            50
     59 Ile Lys Lys Val Glu Arg Lys Lys Asn Phe
```

RAW SEQUENCE LISTING DATE: 12/04/2006
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Input Set : N:\efs\12\_04\_06\10555735\_efs\INTM01901USseqlist.txt
Output Set: N:\CRF4\12042006\J555735.raw

```
70
60 65
63 <210> SEQ ID NO: 3
64 <211> LENGTH: 104
65 <212> TYPE: PRT
66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
69 <223> OTHER INFORMATION: consensus Mig sequence
71 <400> SEQUENCE: 3
72 Thr Pro Val Val Arg Lys Gly Arg Cys Ser Cys Ile Ser Thr Asn Gln
                   5
73 1
74 Gly Thr Val His Leu Gln Ser Leu Glu Lys Leu Lys Ile Phe Ala Pro
              20
75
76 Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile Ala Thr Leu Lys Lys Asn
           35
77
78 Gly Val Gln Arg Cys Leu Asn Pro Asp Ser Lys Asp Val Lys Glu Leu
                           55
       50
80 Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys Lys Lys Gln Lys Asn
                       70
82 Gly Lys Lys His Gln Lys Lys Lys Val Leu Lys Val Arg Lys Val Gln
                   85
84 Arg Ser Arg Gln Lys Lys Thr Thr
               100
85
88 <210> SEQ ID NO: 4
89 <211> LENGTH: 10
90 <212> TYPE: PRT
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: epitope tag
96 <400> SEQUENCE: 4
97 Cys Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
                                        10
98 1
101 <210> SEQ ID NO: 5
102 <211> LENGTH: 8
103 <212> TYPE: PRT
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: epitope tag
109 <400> SEQUENCE: 5
110 Asp Tyr Lys Asp Asp Asp Lys
111 1
114 <210> SEQ ID NO: 6
115 <211> LENGTH: 11
116 <212> TYPE: PRT
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: epitope tag
122 <400> SEQUENCE: 6
123 Cys Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
                     5
124 1
```

 RAW SEQUENCE LISTING
 DATE: 12/04/2006

 PATENT APPLICATION: US/10/555,735
 TIME: 12:59:05

Input Set: N:\efs\12\_04\_06\10555735\_efs\INTM01901USseqlist.txt
Output Set: N:\CRF4\12042006\J555735.raw

```
127 <210> SEQ ID NO: 7
             128 <211> LENGTH: 5
             129 <212> TYPE: PRT
             130 <213> ORGANISM: Artificial Sequence
             132 <220> FEATURE:
             133 <223> OTHER INFORMATION: protease cleavage site
             135 <400> SEQUENCE: 7
             136 Asp Asp Asp Lys
             140 <210> SEQ ID NO: 8
             141 <211> LENGTH: 4
             142 <212> TYPE: PRT
             143 <213> ORGANISM: Artificial Sequence
             145 <220> FEATURE:
             146 <223> OTHER INFORMATION: protease cleavage site
             148 <400> SEQUENCE: 8
             149 Ile Glu Gly Arg
             150 1
             153 <210> SEQ ID NO: 9
             154 <211> LENGTH: 6
             155 <212> TYPE: PRT
             156 <213> ORGANISM: Artificial Sequence
             158 <220> FEATURE:
             159 <223> OTHER INFORMATION: protease cleavage site
             161 <400> SEQUENCE: 9
             162 Leu Val Pro Arg Gly Ser
             163 1
             166 <210> SEQ ID NO: 10
             167 <211> LENGTH: 8
             168 <212> TYPE: PRT
             169 <213> ORGANISM: Artificial Sequence
             171 <220> FEATURE:
             172 <223> OTHER INFORMATION: protease cleavage site
            174 <400> SEQUENCE: 10
175 His Pro Phe His Leu Val Ile His
176 1 5
179 <210> SEQ ID NO: 11
180 <211> LENGTH: 104
181 <212> TYPE: PRT
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Majority Sequence
187 <221> NAME/KEY: VARIANT
188 <222> LOCATION: 1, 3, 4, 6, 10, 14, 15, 16, 17, 18, 20, 21, 22, 28, 30, 31, Summaring
189 34, 35, 37, 50, 57, 60, 61, 63, 68, 69, 70, 71, 72, 73,
Should be a sequence of the s
             174 <400> SEQUENCE: 10
W--> 187 <221> NAME/KEY: VARIANT
                                        74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87,
             190
                                        88, 89, 90, 91, 92, 93, 94, 96, 98, 99, 100, 103; 104
             191
             192 <223> OTHER INFORMATION: Xaa = Any Amino Acid
```

W--> 194 <400> 11

RAW SEQUENCE LISTING DATE: 12/04/2006
PATENT APPLICATION: US/10/555,735 TIME: 12:59:05

Input Set: N:\efs\12\_04\_06\10555735\_efs\INTM01901USseqlist.txt
Output Set: N:\CRF4\12042006\J555735.raw

```
W--> 195 Xaa Pro Xaa Xaa Arg Xaa Gly Arg Cys Xaa Cys Ile Ser Xaa Xaa
    196 1
    197 Xaa Xaa Val Xaa Xaa Xaa Ser Leu Glu Lys Leu Xaa Ile Xaa Xaa Pro
                   20
                                     25
    199 Ser Xaa Xaa Cys Xaa Lys Ile Glu Ile Ile Ala Thr Leu Lys Lys Asn
    200 35
                                 40
    201 Gly Xaa Gln Arg Cys Leu Asn Pro Xaa Ser Lys Xaa Xaa Lys Xaa Leu
    75
    90
                      85
    207 Arg Xaa Xaa Xaa Lys Lys Xaa Xaa
                  100
    208
    211 <210> SEQ ID NO: 12
    212 <211> LENGTH: 98
    213 <212> TYPE: PRT
     214 <213> ORGANISM: Homo sapien
     216 <400> SEQUENCE: 12
     217 Met Asn Gln Thr Ala Ile Leu Ile Cys Cys Leu Ile Phe Leu Thr Leu
                                         10
     218 1
     219 Ser Gly Ile Gln Gly Val Pro Leu Ser Arg Thr Val Arg Cys Thr Cys
                                     25
                   20
     221 Ile Ser Ile Ser Asn Gln Pro Val Asn Pro Arg Ser Leu Glu Lys Leu
                                  40
               35
     223 Glu Ile Ile Pro Ala Ser Gln Phe Cys Pro Arg Val Glu Ile Ile Ala
     225 Thr Met Lys Lys Gly Glu Lys Arg Cys Leu Asn Pro Glu Ser Lys
                                             75
                          70
     227 Ala Ile Lys Asn Leu Leu Lys Ala Val Ser Lys Glu Met Ser Lys Arg
                       85
     228
     229 Ser Pro
     233 <210> SEQ ID NO: 13
     234 <211> LENGTH: 94
     235 <212> TYPE: PRT
     236 <213> ORGANISM: Homo sapien
     238 <400> SEQUENCE: 13
     239 Met Ser Val Lys Gly Met Ala Ile Ala Leu Ala Val Ile Leu Cys Ala
                       5
                                         10
     240 1
     241 Thr Val Val Gln Gly Phe Pro Met Phe Lys Arg Gly Arg Cys Leu Cys
                                      25
     242
     243 Ile Gly Pro Gly Val Lys Ala Val Lys Val Ala Asp Ile Glu Lys Ala
     244
                                  40
     245 Ser Ile Met Tyr Pro Ser Asn Asn Cys Asp Lys Ile Glu Val Ile Ile
                              55
     247 Thr Leu Lys Glu Asn Lys Gly Gln Arg Cys Leu Asn Pro Lys Ser Lys
                                             75
                           70
     249 Gln Ala Arg Leu Ile Ile Lys Lys Val Glu Arg Lys Asn Phe.
     250
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/555,735

DATE: 12/04/2006
TIME: 12:59:05

Input Set : N:\efs\12\_04\_06\10555735\_efs\INTM01901USseqlist.txt
Output Set: N:\CRF4\12042006\J555735.raw

```
253 <210> SEQ ID NO: 14
254 <211> LENGTH: 125
255 <212> TYPE: PRT
256 <213> ORGANISM: homo sapien
258 <400> SEQUENCE: 14
259 Met Lys Lys Ser Gly Val Leu Phe Leu Leu Gly Ile Ile Leu Leu Val
                    5
261 Leu Ile Gly Val Gln Gly Thr Pro Val Val Arg Lys Gly Arg Cys Ser
              20
263 Cys Ile Ser Thr Asn Gln Gly Thr Ile His Leu Gln Ser Leu Lys Asp
                                40
265 Leu Lys Gln Phe Ala Pro Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile
                           55
267 Ala Thr Leu Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Ala
                       70
269 Asp Val Lys Glu Leu Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys
                                        90
                   85
271 Lys Lys Gln Lys Asn Gly Lys Lys His Gln Lys Lys Val Leu Lys
                                    105
        100
273 Val Arg Lys Ser Gln Arg Ser Arg Gln Lys Lys Thr Thr
                                120
           115
277 <210> SEQ ID NO: 15
278 <211> LENGTH: 98
279 <212> TYPE: PRT
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: hybrid CXCR3 ligand
285 <400> SEQUENCE: 15
286 Met Lys Lys Ser Gly Val Leu Phe Leu Leu Gly Ile Ile Leu Leu Val
                    5
                                        10
287 1
288 Leu Ile Gly Val Gln Gly Phe Pro Met Phe Lys Arg Gly Arg Cys Leu
                                    25
                20
290 Cys Ile Gly Pro Gly Val Lys Pro Val Asn Pro Arg Ser Leu Glu Lys
291 35
292 Leu Glu Ile Ile Pro Ala Ser Gln Phe Cys Pro Arg Ile Glu Ile Ile
294 Ala Thr Leu Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Lys
                                            75
                        70
296 Gln Ala Arg Leu Ile Ile Lys Lys Val Ser Lys Glu Met Ser Lys Arg
297
298 Ser Pro
 302 <210> SEQ ID NO: 16
 303 <211> LENGTH: 124
 304 <212> TYPE: PRT
 305 <213> ORGANISM: Artificial Sequence
 307 <220> FEATURE:
 308 <223> OTHER INFORMATION: hybrid CXCR3 ligand
 310 <400> SEQUENCE: 16
 311 Met Asn Gln Thr Ala Ile Leu Ile Cys Cys Leu Ile Phe Leu Thr Leu
```

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 12/04/2006 TIME: 12:59:06

PATENT APPLICATION: US/10/555,735

Input Set : N:\efs\12\_04\_06\10555735\_efs\INTM01901USseqlist.txt

Output Set: N:\CRF4\12042006\J555735.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos. 1,3,4,6,10,14,15,16,17,18,20,27,22,28,30,31,34,35,37,50 Seq#:11; Xaa Pos. 57,60,61,63,68,69,70,71,72,73,74,75,76,77,78,79,80,87,82 Seq#:11; Xaa Pos. 83,84,85,86,87,88,86,90,91,92,93,94,96,98,99,100,103,104

VERIFICATION SUMMARY

DATE: 12/04/2006 TIME: 12:59:06

PATENT APPLICATION: US/10/555,735

11.....

Input Set : N:\efs\12\_04\_06\10555735\_efs\INTM01901USseqlist.txt

Output Set: N:\CRF4\12042006\J555735.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:187 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

L:187 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order: L:194 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11

L:194 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#: L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0

M:341 Repeated in SeqNo=11